Test Report No.:	**CN22FSJT 001**	**Order No.:**	168379999	Page 1 of 13
Client Reference No.:	N/A	**Order date:**	Jul-01-2022	
Client:	**Scangrip A/S** Rytterhaven 9 5700 Svendborg, Denmark			
Test item:	SCANGRIP CONNECT			
Identification / Type no. :	See model No. in page 2			
Order content:	Test Report			
Test specification:	Tested per requirement from client (See test content in report)			

Date of receipt:	N/A			See product photo from page 3
Test sample No.:	A2206217-C01-S0001 to S0016			
Testing period:	Jul-07-2022	to	Jul-07-2022	
Place of testing:	See page 2			
Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Test result*:	**Pass**			

Tested by:			**Reviewed by:**		
Eddie Tan			Abel Li		
Jul-19-2022	Eddie Tan / Project Engineer		Jul-19-2022	Abel Li / Technical Reviewer	
Date	**Name / Position**	**Signature**	**Date**	**Name / Position**	**Signature**

Other:

The completed test report includes the following document:

- The report with cover page (13 pages).

Condition of the test item at delivery:	Test item complete and undamaged

*Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested

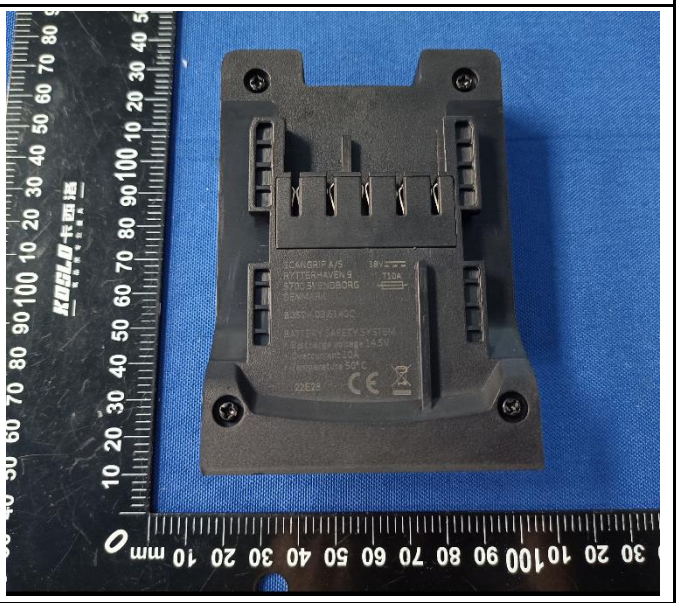
This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.

Model No.	03.6140C CONNECT BOSCH 03.6141C CONNECT BOSCH GREEN 03.6142C CONNECT DEWALT 03.6143C CONNECT EINHELL 03.6144C CONNECT FEIN 03.6145C CONNECT FLEX 03.6146C CONNECT HAZET 03.6147C CONNECT HIKOKI 03.6148C CONNECT MAKITA 03.6149C CONNECT MILWAUKEE 03.6150C CONNECT WÜRTH 03.6151C CONNECT SNAP-ON 03.6152C CONNECT INGERSOLL 03.6153C CONNECT FESTOOL 03.6154C CONNECT RIDGID 03.6155C CONNECT BERNER
Ratings	18Vdc
Overcurrent Fuse	10A
Discharge voltage protection	14.5Vdc
Temperature Protection	50°C
Manufacturer	Same as client
Factory	Same as client
Place of testing	SHENZHEN ALPHA PRODUCT TESTING CO., LTD. Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China
Remark	The inside circuit of all models are identical, only different in outer enclosure. Tested on model 03.6140C to represent others. All CONNECTORS are for using with Scangrip CONNECT lamps.

PRODUCT PHOTOS:

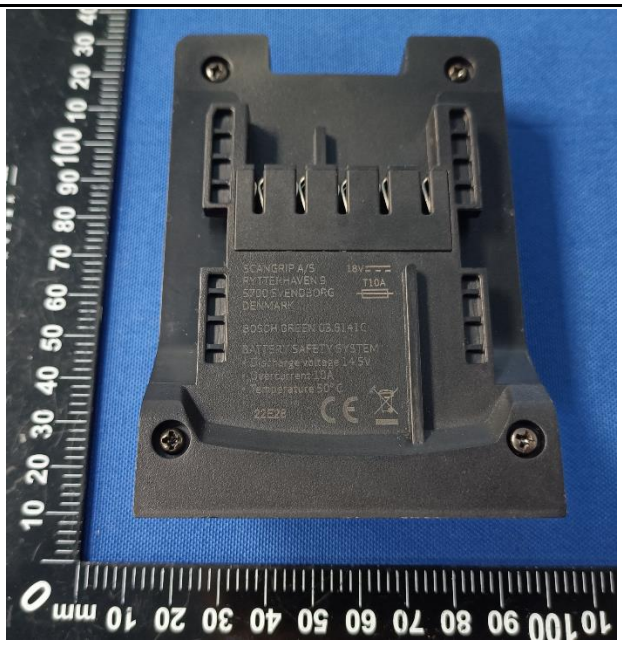
03.6140C CONNECT BOSCH





03.6141C CONNECT BOSCH GREEN

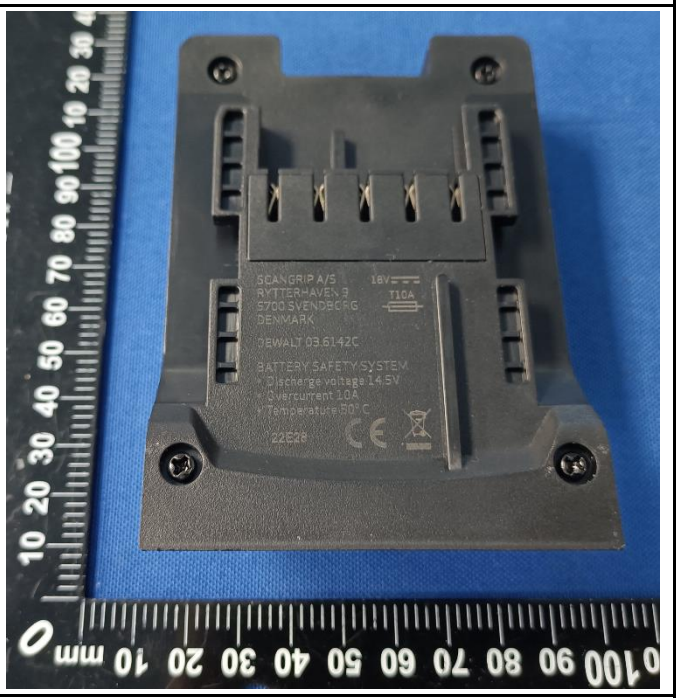




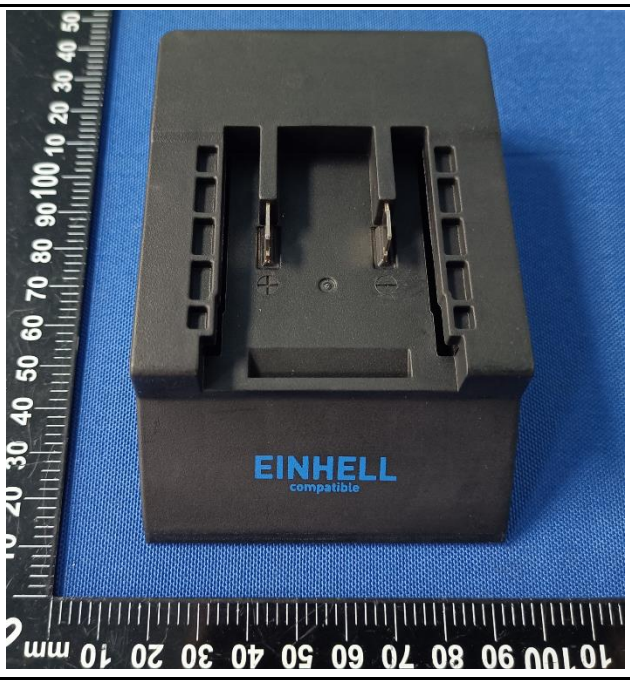
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03.6142C CONNECT DEWALT





03.6143C CONNECT EINHELL

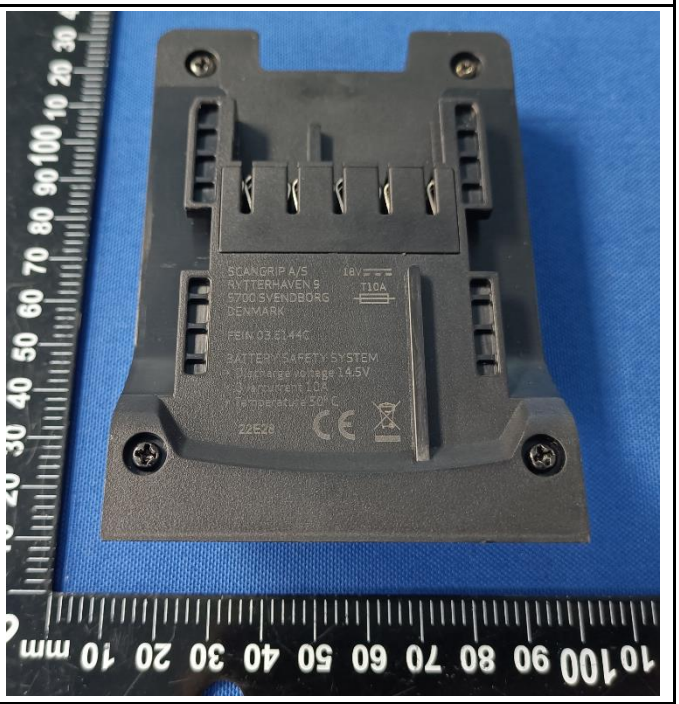




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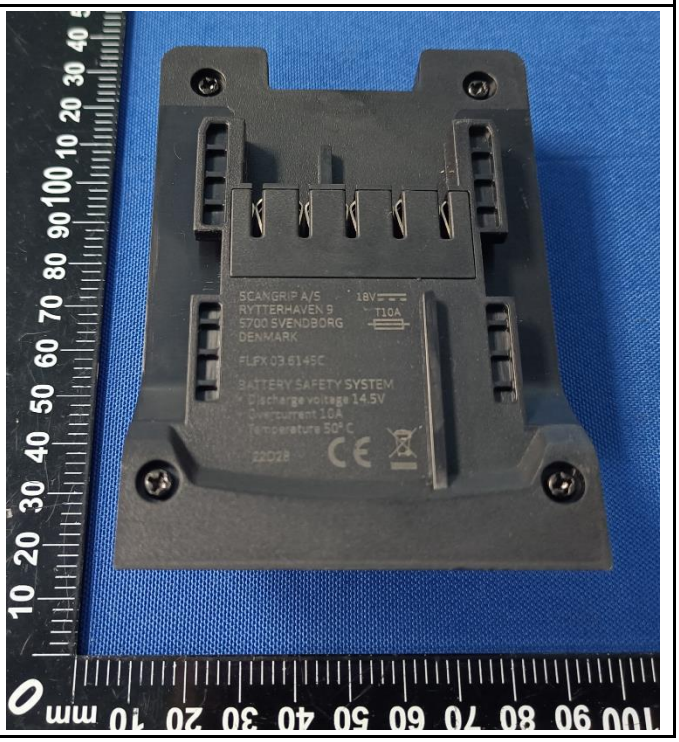
03.6144C CONNECT FEIN





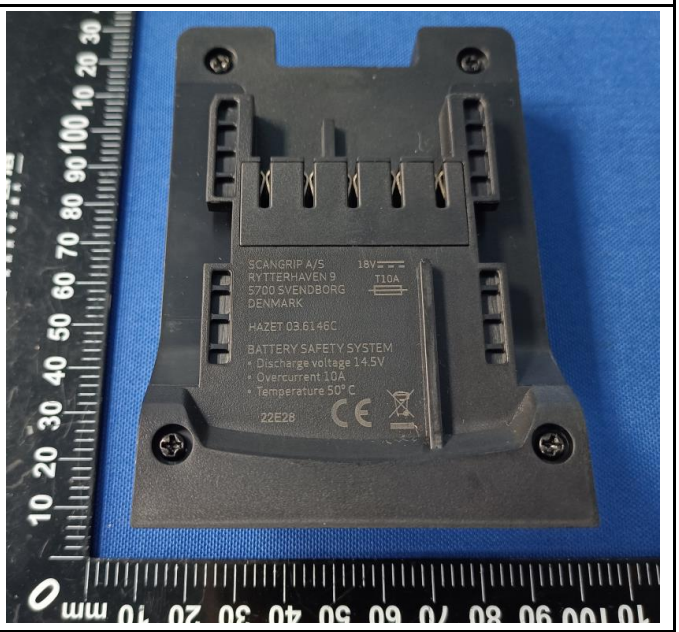
03.6145C CONNECT FLEX





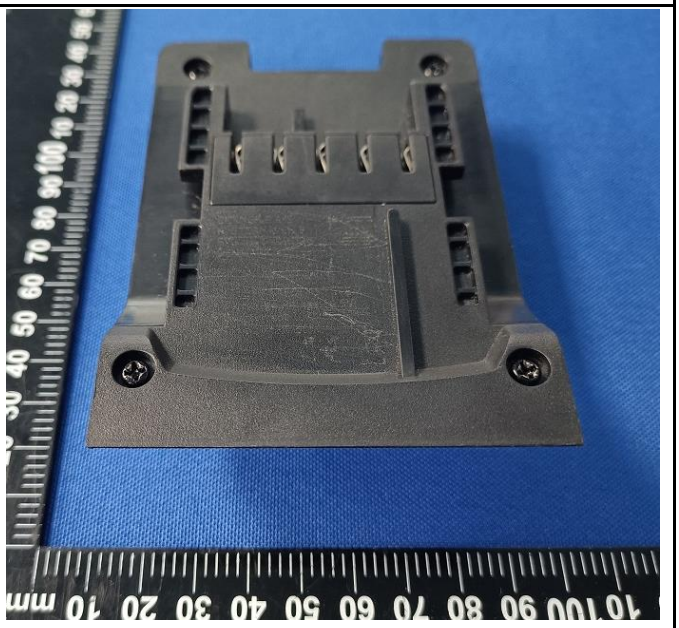
03.6146C CONNECT HAZET





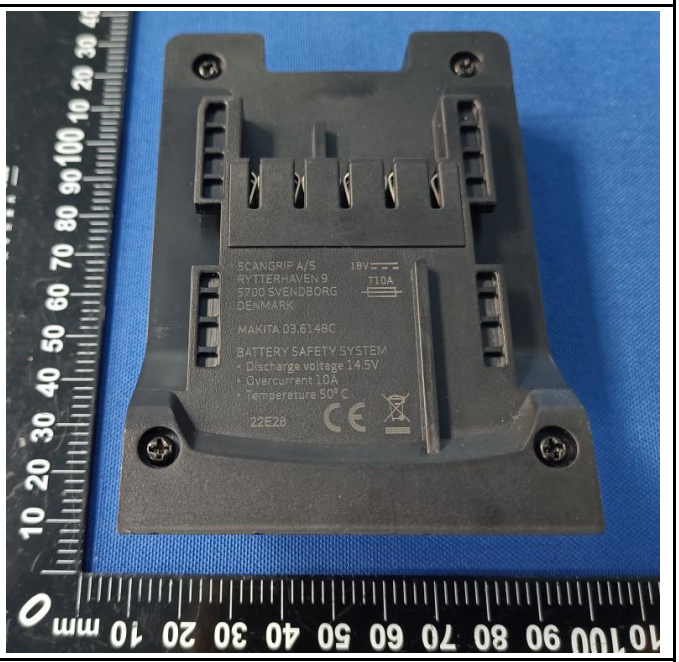
03.6147C CONNECT HIKOKI



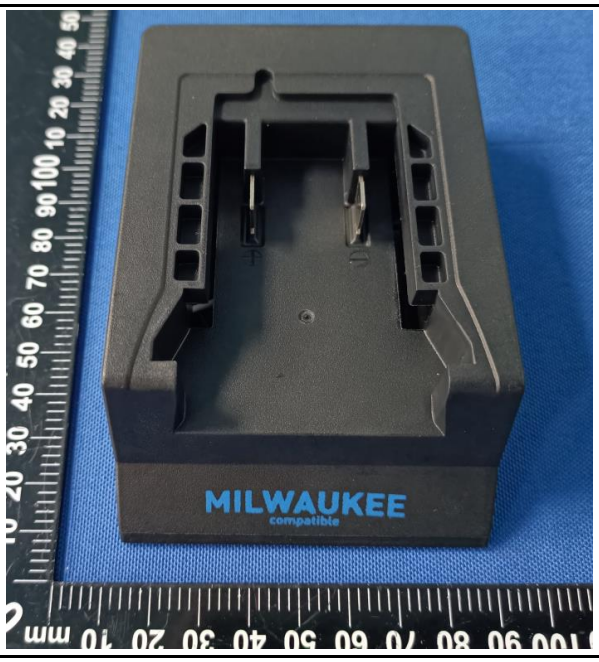


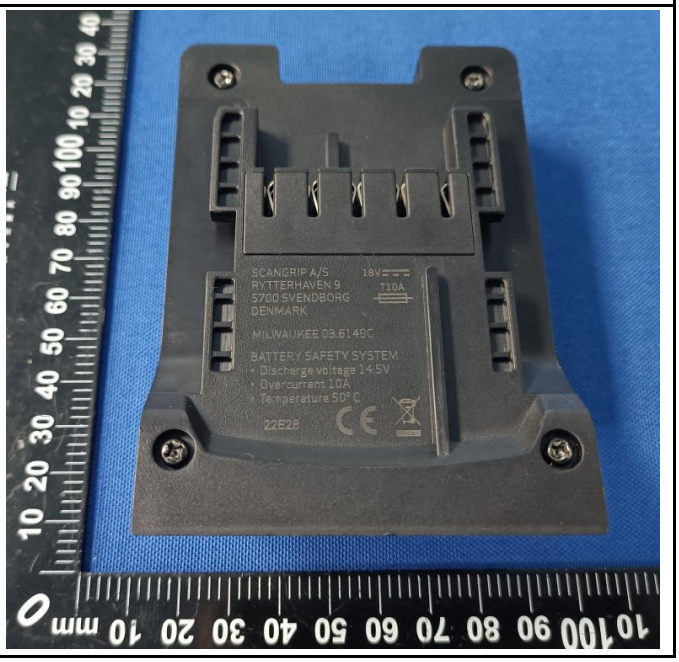
03.6148C CONNECT MAKITA





03.6149C CONNECT MILWAUKEE

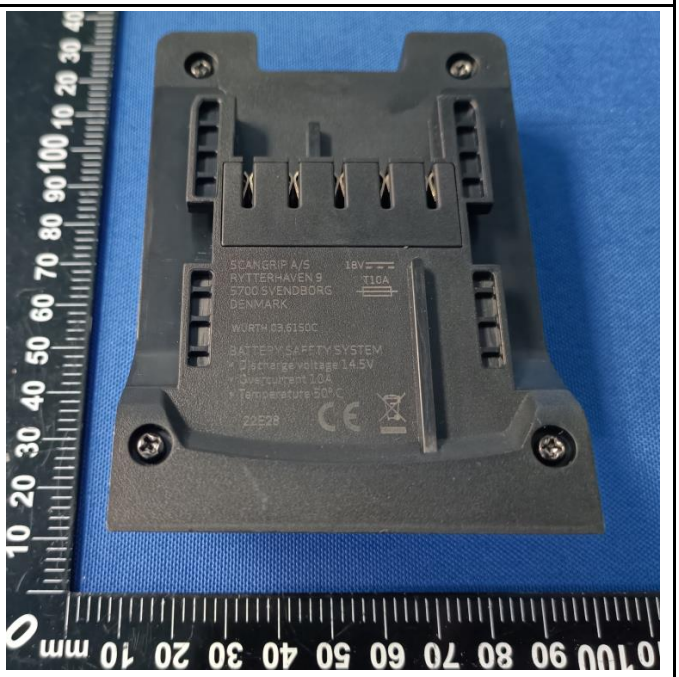




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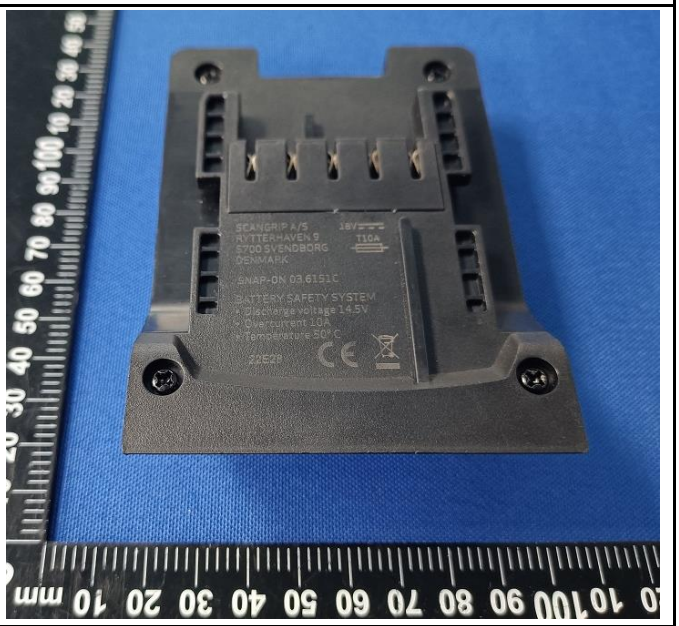
03.6150C CONNECT WÜRTH





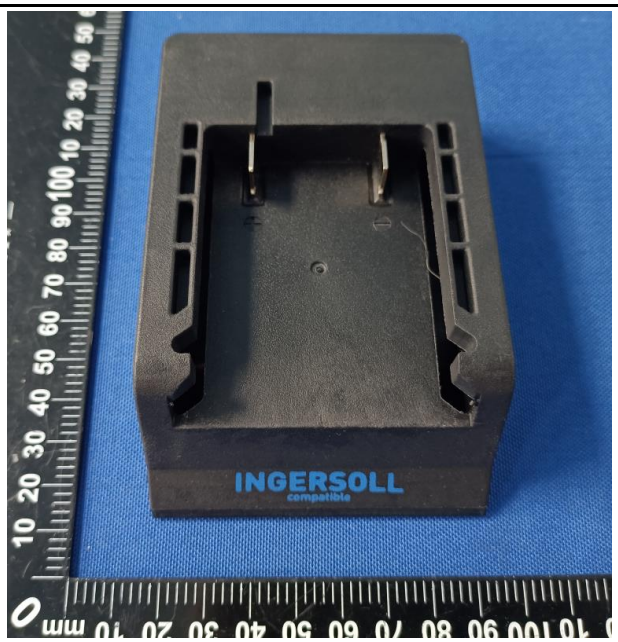
03.6151C CONNECT SNAP-ON

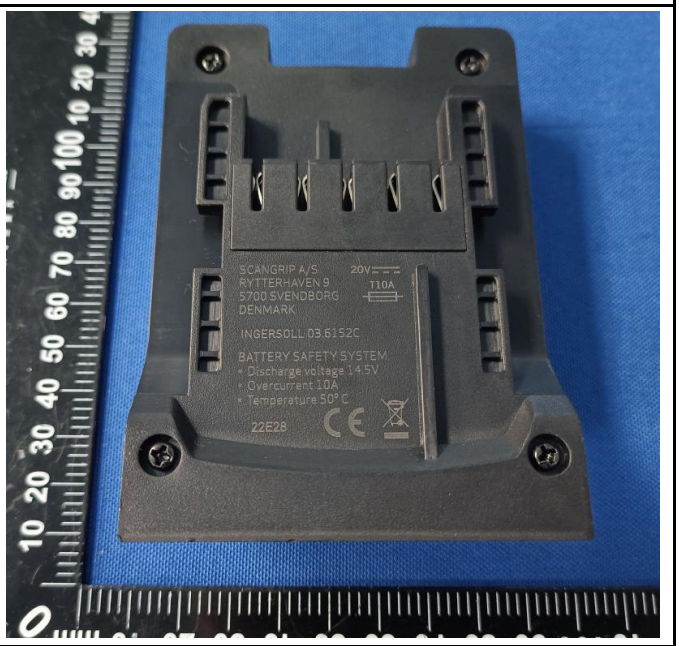




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03.6152C CONNECT INGERSOLL





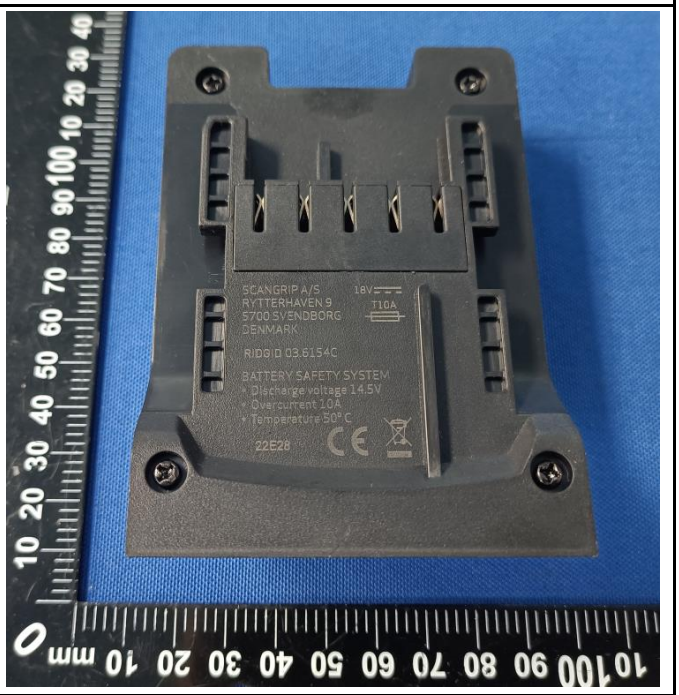
03.6153C CONNECT FESTOOL



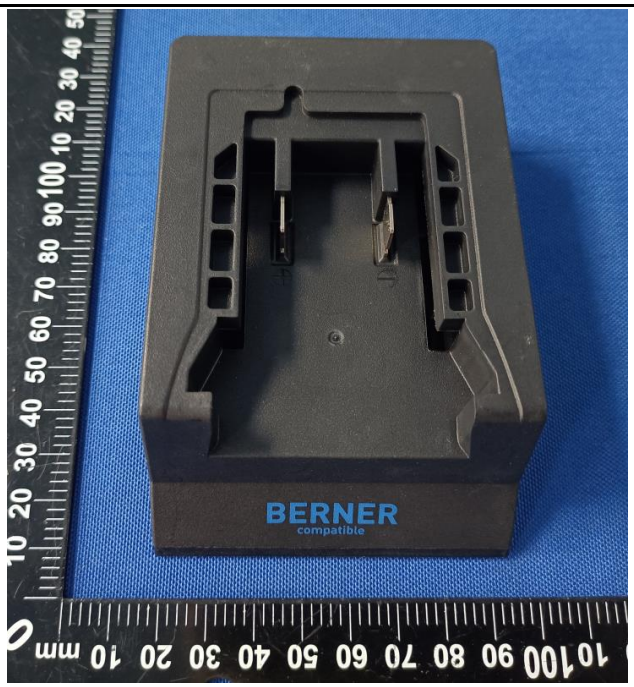


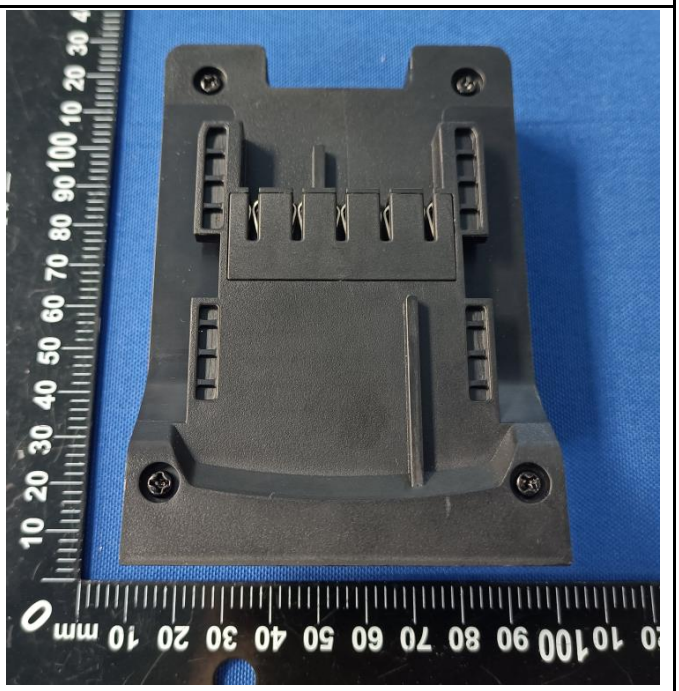
03.6154C CONNECT RIDGID





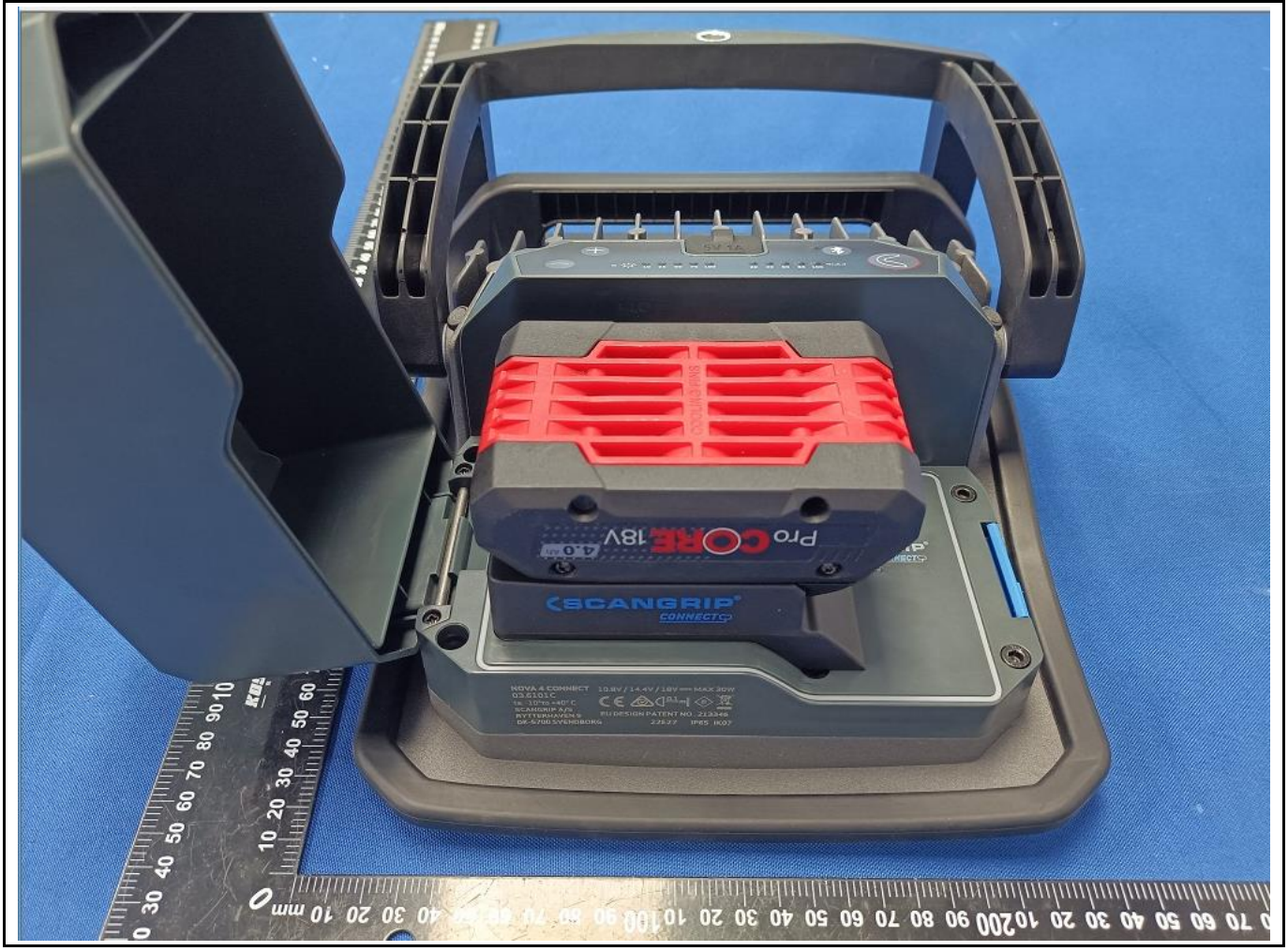
03.6155C CONNECT BERNER





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Example of 03.6140C CONNECT BOSCH with Scangrip NOVA 4 CONNECT and BOSCH PRO CORE Li-ion battery 18V 4Ah



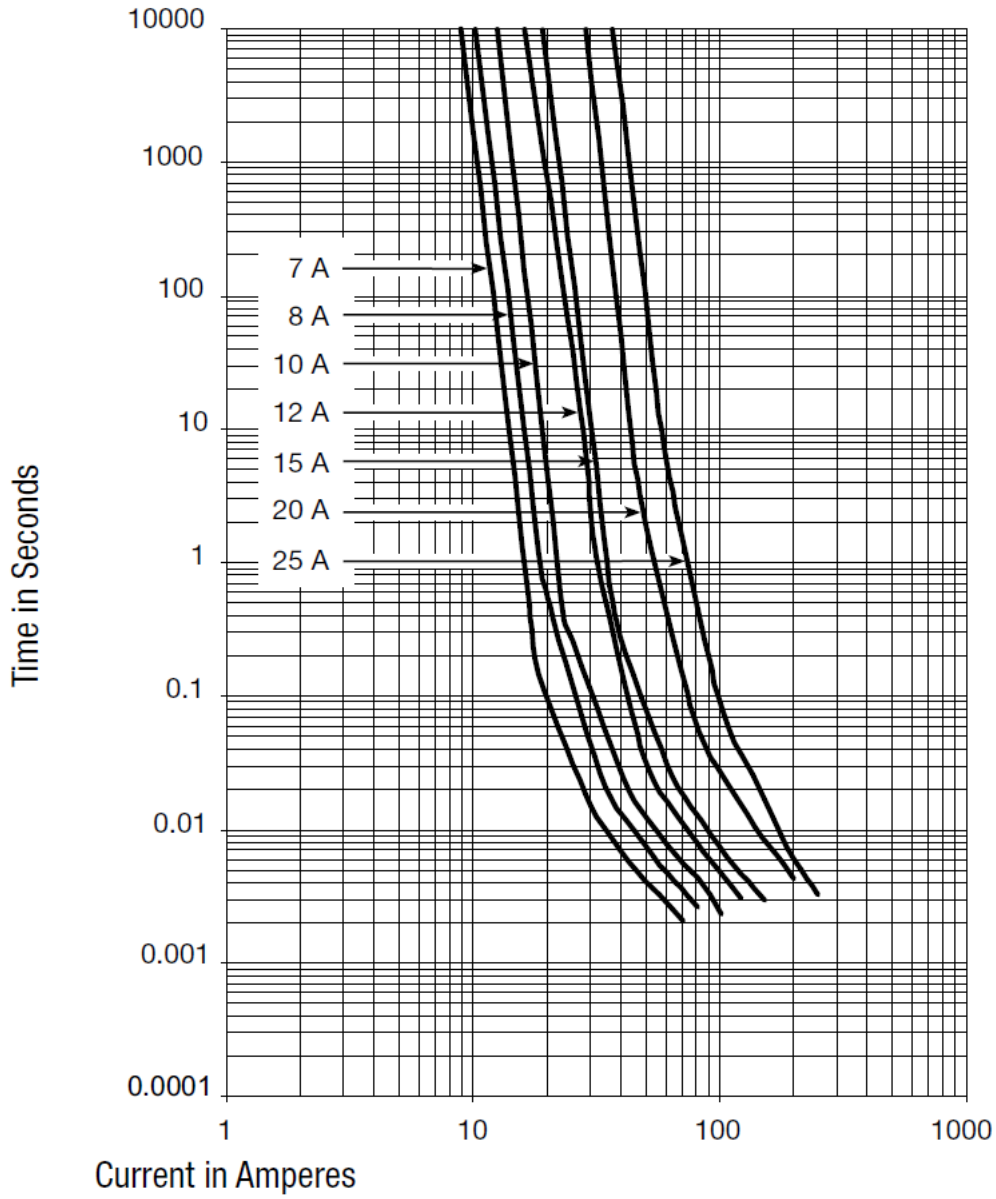
Test Report No.:	CN22FSJT 001	Page 12 of 13
Test Item	Requirement	Result

BATTERY SAFETY SYSTEM		
Deep discharge voltage protection 14.5V	1. Use a DC source to supply 18V to the connector and work light to make it work. 2. Slowly reduce the DC source output voltage until 14.5V. 3. Recording the voltage when connectors and work lights stop working.	Pass Work light stop working when voltage drop to 14.57V.
Temperature protection 50°C	1. Put the connector and work light into the Temperature & Humidity Chamber, and use a DC source to supply 18V to the connector and work light to make it work. 2. The Temperature & Humidity Chamber is set to 50°C. 3. Recording the temperature of the connector when connectors and work lights stop working. Remark: 50°C active temperature protector was used. Spec of active temperature: 50±5°C.	Pass Work light stop working when connector reaches to 49.5°C.
Overcurrent protection	Connector subjected to a 13A constant loading. Observe if the fuse inside the connector is broken. Remark: 10A fuse was used, see time current curves in appendix.	Pass Fuse is broken after 2min9s.

APPENDIX to Test Report No.:	CN22FSJT 001	Page 13 of 13

ADDITIONAL DOCUMENTATION

Time-Current-Curves



********** **End of test report** **********